

Claims

[c1] WHAT IS CLAIMED IS:

1. A device for pneumatically conveying bulk material, the device comprising:
at least one flow limiter arranged in a conveying airstream, wherein the flow limiter comprises a housing and at least one control member arranged in the housing;
wherein the control member, as a function of a dynamic pressure differential, controls a flow velocity of the conveying airstream.

[c2] 2. The device according to claim 1, wherein at least one of the housing and the at least one control member has at least one opening for the conveying airstream or for a secondary air flow.

[c3] 3. The device according to claim 2, wherein the at least one control member has a peripheral wall and wherein the at least one opening is arranged in the peripheral wall.

[c4] 4. The device according to claim 3, wherein the housing has a housing wall and wherein the at least one opening

is provided in the housing wall.

- [c5] 5. The device according to claim 4, wherein the at least one opening of the housing wall and the at least one opening of the peripheral wall overlap one another in a control position.
- [c6] 6. The device according to claim 5, wherein the dynamic pressure differential determines the overlap.
- [c7] 7. The device according to claim 2, wherein the secondary air flow is guided transversely into the conveying airstream.
- [c8] 8. The device according to claim 2, wherein the at least one control member comprises an approximately axially adjustable throttle member arranged in the housing.
- [c9] 9. The device according to claim 8, wherein the at least one control member has a closing part for the at least one opening provided in the housing.
- [c10] 10. The device according to claim 9, wherein the control member is a two- arm lever comprising a first pivot arm and a second pivot arm.
- [c11] 11. The device according to claim 10, wherein the throttle member is arranged on the first pivot arm and the closing part is arranged on the second pivot arm.

- [c12] 12. The device according to claim 10, wherein a pivot axis of the two-arm lever is positioned off-center relative to the housing.
- [c13] 13. The device according to claim 9, wherein the closing part is a slidable flap.
- [c14] 14. The device according to claim 2, wherein the at least one opening is provided in a radial projection of the housing.
- [c15] 15. The device according to claim 1, wherein the at least one control member is adjustable in the housing in an area between two end positions.
- [c16] 16. The device according to claim 15, wherein the at least one control member is slidably arranged in the housing.
- [c17] 17. The device according to claim 15, wherein the at least one control member is pivotably arranged in the housing.
- [c18] 18. The device according to claim 1, wherein the at least one control member has at least one open end.
- [c19] 19. The device according to claim 1, wherein the at least one control member is pipe-shaped.

- [c20] 20. The device according to claim 1, wherein the at least one control member has two open ends.
- [c21] 21. The device according to claim 1, wherein the at least one control member is configured such that the conveying air flows at least across a portion of the length of the at least one control member in a longitudinal direction of the at least one control member.
- [c22] 22. The device according to claim 1, wherein the at least one control member has at least one aperture in a flow direction of the conveying airstream.
- [c23] 23. The device according to claim 22, wherein the at least one control member has a lid and the aperture is at least one opening in the lid.
- [c24] 24. The device according to claim 1, wherein the position of the at least one control member in the housing is determined by an equilibrium between a restoring force acting on the at least one control member and an opposed force oriented in a direction opposite to the restoring force, wherein the opposed force is caused by the dynamic pressure differential and acts on the at least one control member.